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which later mostly slender, branching germ tubes were produced. (Fig. 5, showing, for the sake of clearness, only part of the bladder-like structures and germ tubes).

In various culture media, the writer was unable to obtain any further forms of this fungus.

EXPLANATION OF PLATE IOI.

Fig. 1. Top view of spiny spore from pineapple leaf, x 750.

Fig. 2. Side view of spiny spore from *Cenchrus*, x 750.

Fig. 3. Portion of sporodochium on *Cenchrus*, showing two kinds of spores and scars where sporophores have fallen away, x 750.

Fig. 4. Underview of spiny spore on *Cenchrus*, showing mode of attachment of sporophore to spores, x 500.

Fig. 5. Germination of spiny spore from pineapple leaf (only a portion of the germ tubes being shown, for the sake of clearness), x 600.

Fig. 6. Smooth spore from *Cenchrus*, showing sporophore, x 600.

Figs. 7. and 8. Smooth spores from pineapple leaf, in germination, x 600

Fig. 9. Abnormal smooth spore, from pineapple, in germination, x 700.

All drawings were made with the aid of the camera lucida.

Subtropical Laboratory, Miami, Florida.

NEW FUNGI FROM NEW YORK.

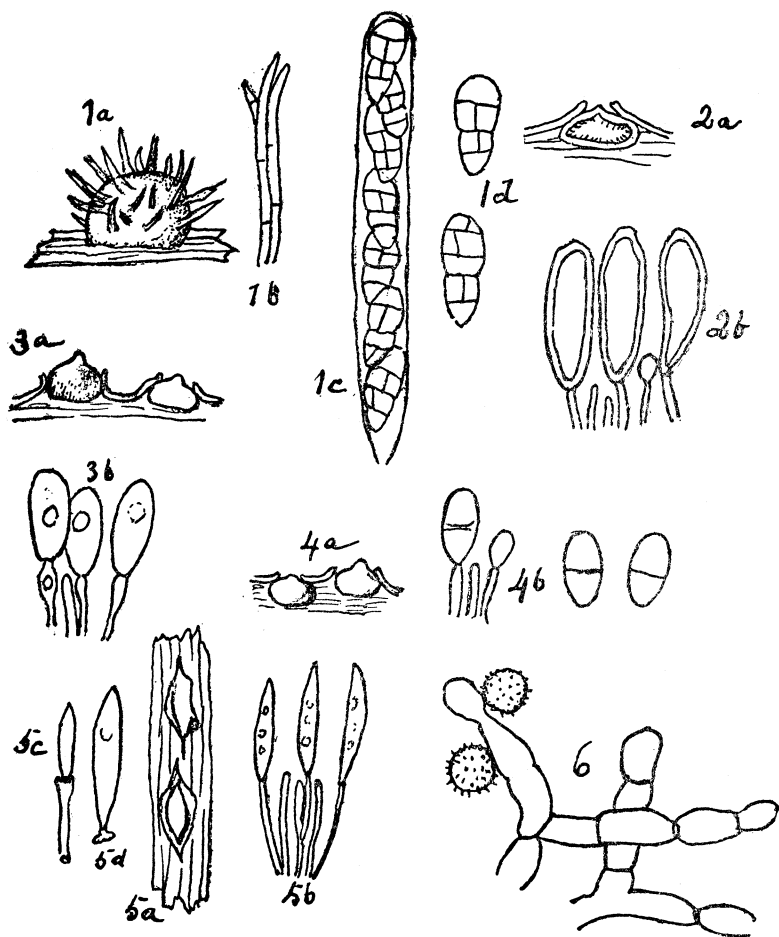
P. A. SACCARDO.

The following fungi were collected by Dr. C. E. Fairman, near Lyndonville, N. Y., and submitted to me for determination:

PLEOSPHAERIA FAIRMANIANA Saccardo sp. nov.

Peritheciis laxe gregariis v. subsparsis, superficialibus, globosis, nigris, membranaceo-carbonaceis, 250-280 μ diam., vertice rotundatis, non papillatis, utique laxe setulosis; setulis filiformibus, obtusulis, indistincte septulatis, fuligineis, 85-100 x 5-6 μ , in fasciculos rigidulos junctis; ascis cylindraxis, octosporis, 100-120 x 12 μ , indistincte paraphysatis; sporidiis oblique monostichis, oblongo-ovoideis, sursum crassioribus, 3-septatis (rarius 4-septatis), medio constrictis, parceque muriformibus, 19-23 x 7.5-9 μ , olivaceo-fuscis.

Hab. in ligno carioso indurato Ulmi americanæ. Lyndonville, N. Y., Maio 1906, Doct. C. E. Fairman, no. 55.



1. PLEOSPHERA FAIRMANIANA.

4. DIPLODIA HORTENSIS.

2. SPHAEROPSIS AMERICANA.

5. HYMENOPSIS HYDROPHYLLA.

3. SPHAEROPSIS RUMICICOLA.

6. ZYGODESMIS AVELLANEUS.

Praecipue *Pleosphaeria quercinae* Pat. boreali-africanae affinis, a qua differt ascis cylindraceis nec clavatis, setulis peritheci fasciculatis, etc.

PHOMA STROBILIGENA Desm. f. abietina; a typo generi satis aberrans et forte non diversa a *Ph. cornigena* Karst. Lyndonville, N. Y., Doct. C. E. Fairman, No. 45.

SPHAEROPSIS (Macroplodia) AMERICANA Sacc. sp. nov.

Pycnidiis laxe gregariis, globoso-depressiusculis, peridermio pustulatum elevato tectis et denique ostiolo breviter papillato erumpentibus, 500-700 μ diam., excipulo crassiusculo, 90-100 μ cr., minute celluloso, atro-fuligineo, nucleo farcte subolivaceo; sporulis oblongo-ellipsoideis, 28-3 x 9-11 μ , rectis v. leviter inaequilateris ex ochraceo olivaceo-fuligineis, initio granulosis, dein 2-nucleatis, demum farctis, tunica hyalina crassiuscula obductis; basidiis paliformibus, 10-15-4-5, hyalinis.

Hab. in ramis Tiliae americanae, Lyndonville, N. Y., Maio 1906. Doc. C. E. Fairman. No. 50.

SPHAEROPSIS RUMICICOLA Saccardo sp. nov.

Pycnidiis densiuscule gregariis, subcutaneo-erumpentibus et dein subsuperficialibus, globoso-conoideis, atris, membranaceis, 1-3 mm. diam., glabris; sporulis ellipsoideis v. ovato-ellipsoideis, utrinque rotundatis; 22-27 x 11-14 μ , inaequaliter 2-3-guttulatis, fuliginis; basidiis paliformibus, v. sursum leviter inflatis, hyalinis.

Hab. in caulibus emortuis Rumicis sp., Lyndonville, N. Y., Apr. 1906. Dr. C. E. Fairman. No. 50.

Sporulis jugiter continuis, huic typica Sphaeropsidis species nec Diplodia.

DIPLODIA ROSARUM Fr.; basidia breviuscula, hyalina, 6 x 2.5 μ . Lyndonville, N. Y. Dr. C. E. Fairman. No. 51.

DIPLODIA HORTENSIS Saccardo sp. nov.

Pycnidiis gregariis, subcutaneo-erumpentibus, globosis, breve papillatis, nigris, 300-400 μ diam.; sporulis ellipsoideis, utrinque rotundatis, medio septatis, non constrictis 19-20 x 11 μ , fuliginis; basidiis fasciculatis, paliformibus, 8-10 x 5, hyalinis.

Hab. in caulibus Clematidis paniculatae cultae, Lyndonville, N. Y., Martio 1906. Dr. C. E. Fairman. no. 48.

Dipl. herbarum dignoscitur pycnidiis regularibus, papillatis, sporulis brevioribus, haud constrictis.

HYMENOPSIS HYDROPHILA Saccardo sp. nov.

Sporodochiis laxe gregariis, longitrorsum oblongis, 400-450 x 200 μ , opace nigris, glabris, compactiusculis, subexcavato-hysterioides, erumpenti-superficialis; conidiis fusiformibus, rectis v. leviter inaequilateris, 16 x 4-4.2 μ , intense olivaceis, obsolete, guttulis, utrinque acutiusculis; basidiis dense fasciculatis, filiformibus, sursum incrassatis, hyalino-viridulis, 20-20 x 2 μ , apice truncatulis et subinde fimbriatulis.

Hab. in foliis emortuis Typhae latifoliae, Lyndonville, N. Y., Maio 1906. Dr. C. E. Fairman. no. 53.

Species peculiaris, ab *H. typhae* (Fuck.) Sacc. omnino diversa. Conidia mutica, sed a basidio liberate hinc v. utrinque maculam mucosam emittere videntur.

HELICOMYCES CINEREUS Peck. Lyndonville, N. Y., Dr. C. E. Fairman, no. 52.

ZYGODESMUS AVELLANEUS Saccardo sp. nov.

Effusus, velutinis, avellaneo-olivaceis; hyphis varie intricatis, ramosis, crassiusculis, dilute flavidis, septatis, 9-11 μ diam. articulis interdum gibbis v. inflatulis, rarius apice subrotundatis; conidiis acro-pleurogenis, globosis, minute asperulis, dilute mel-leis.

Hab. in cortice emortuo Pruni serotinae, Lyndonville, N. Y., Apr. 1906, Dr. C. E. Fairman, no. 46.

Affinis *Z. fulvo* var. olivascent. Sacc. differt praecipue hyphis etiam fertilibus multo crassioribus, nempe 9-11 μ , nec 5-7 μ et colore.

ASCOMYCETES AND LOWER FUNGI.

GUY WEST WILSON AND FRED. JAY SEAVER.

It is the intention of the writers to issue, as material accumulates, exsiccati of fungi under the above title, the scope of the work being limited to Ascomycetes, Deuteromycetes and Phycomycetes. This material will be issued in unbound fascicles of twenty-five numbers each. The following is an annotated list of the contents of the first fascicle:

1. CHLOROSPLENium CHLORA (Schw.) Masee.

Peziza chlora Schweinitz, Syn. Fung. Car. Sup., 96. 1822.

Chlorosplenium schweinitzii Fries, Summa Veg. Scand., 356. 1849.

Chlorosplenium chlora (Schw.) Masee, Jour. Linn. Soc., 35:116. 1901.

Plants externally bright yellow; hymenium dull becoming green. The genus *Chlorosplenium* was founded by Fries on *C. schweinitzii* which is synonymous with this species.

2. DERMATEA OLIVASCENS Rehm, Ascomycetes, 1686.

The material issued under this number is a part of the type collection. The species is close to *Dermatea crataegicola* Durand. On branches of *Crataegus* sp. apparently dead but still on the tree.